INTELLIGENT COMPACTION QUALITY CONTROL REPORT SUMMARY FOR HOT MIX ASPHALT WITH DENITY REQUIREMENT

CEM-IC13 (06/20/2016)

PROJECT INFORMATION/NAME	CONTRACT NUMBER	CO/RTE/PM
	PROJECT IDENTIFIER NUMBER	
	CONTRACTOR NAME	

Instruction: This form to be used by the contractor to summarize the daily hot mix asphalt intelligent compaction quality control report information. For questions about this form send an email to: IC@dot.ca.gov

Quality control report for hot mix asphalt placed on:	HMA Placement Date

Hot Mix Asphalt Information

HMA Placement Location		Direction	Lane Number
Beginning Station/Post Mile	Ending Station/Post Mile	HMA Type	HMA Thickness

Intelligent Compaction Quality Control Technician

Compaction QC Technician (print name)	Intelligent Compaction QC Training Completion Date:	Training requirement effective January, 1 2017.
Email address	Phone Number	

Intelligent Compaction Data Analysis Technician

Data Analysis Technician (print name)	Data Analysis Training Completion Date:	Training requirement effective January 1, 2017.
Email address	Phone Number	

Quality Control Report Preparer

Quality Control Report Completed by (print name)	Signature	Date
Email Address	Phone Number	

Activities Before Daily Production

☐ Check testing
A-GPS measurements from Roller_____
B- GPS measurements from rover _____
Difference (A-B)_____ ft.*
**Take corrective action if difference more than* 0.5 ft

☐ Temperature sensor accuracy verification
A-Temperature from Roller_____ °F
B- Temperature from independent device _____ °F
Difference (A-B)_____ °F*
**Take corrective action if difference more than 5°F*

COMMENTS:

Intelligent Compaction Target Values Determined From Test Strip

_____Target number of roller passes for breakdown compaction	Roller type: ☐ Steel vibratory ☐ Steel static ☐ Pneumatic
_____Target roller 1st pass minimum temperature breakdown compaction	
_____Target number of roller passes for intermediate compaction	Roller type: ☐ Steel vibratory ☐ Steel static ☐ Pneumatic

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_____Target minimum temperature °F for completing intermediate compaction

_____Target intelligent compaction measurement value

_____Roller pass number that is the basis for target intelligent compaction measurement value

COMMENTS:

DAILY COMPACTION QUALITY CONTROL REPORT SUMMARY

Breakdown Compaction Vibratory Steel Drum Roller Number of Passes

_____Target number of roller passes	_____Percent work area covered by minimum number of roller passes

Does the number of passes for IC vibratory steel drum roller compaction shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target value established at the test strip?

☐ Yes ☐ No

If no, corrective action taken:

Breakdown Compaction HMA Mat Temperature

_____Target 1st pass minimum temperature	_____Percent work area covered by minimum temperature

Does the 1st PASS breakdown compaction temperature results show that temperature meets or exceeds the target minimum temperature for at least 95% of the daily HMA placement area?

☐ Yes ☐ No

If no, corrective action taken:

Breakdown Compaction Intelligent Compaction Measurement Value

_____Target intelligent compaction measurement value	_____Daily average intelligent compaction measurement value

Does the daily average intelligent compaction measurement value for final coverage of IC vibratory steel drum roller meets or exceeds the target intelligent compaction measurement value established at the test strip?

☐ Yes ☐ No

If the answer is no, is the daily average intelligent compaction value at least 81 percent of the target measurement value?

☐ Yes ☐ No

If the answer is no, reestablish the intelligent compaction measurement value.

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Intermediate Compaction Roller Number of Passes	
_____Target number of roller passes	_____Percent work area covered by minimum number of roller passes
Does the number of passes for intermediate compaction roller shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target established at the test strip? ☐ Yes ☐ No	
If no, corrective action taken:	

Complete Intermediate Compaction HMA Mat Temperature	
_____Target intermediate compaction HMA mat temperature	_____Percent work area covered by minimum temperature
Does the final pass of intermediate compaction temperature results show that temperature meets or exceeds the minimum target temperature for at least 95% of the daily HMA placement area? ☐ Yes ☐ No	
If no, corrective action taken:	

Additional Intelligent Compaction Vibratory Steel Drum Roller Compaction

If the roller pattern established at the test strip includes addition rolling using IC vibratory steel drum roller after pneumatic rubber tire rolling provide the following information: ☐ Yes ☐ Not Required	
Roller Number of Passes	
_____Target number of roller passes	_____Percent work area covered by minimum number of roller passes
Does the number of passes for IC vibratory steel drum roller compaction shown on final coverage histogram of number of passes show that at least 90 percent coverage of the HMA placement area meets or exceeds the minimum number of roller passes based on target value established at the test strip? ☐ Yes ☐ No	
If no, corrective action taken:	

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Intelligent Compaction Measurement Value	
_____Target intelligent compaction measurement value	_____ Daily average intelligent compaction measurement value

Does the daily average intelligent compaction measurement value for final coverage of IC vibratory steel drum roller meets or exceeds the target intelligent compaction measurement value established at the test strip?

☐ Yes ☐ No

If the answer is no, is the daily average intelligent compaction value at least 81 percent of the target measurement value?

☐ Yes ☐ No

If the answer is no, reestablish the intelligent compaction measurement value.

Note:

1) Results from intelligent compaction are for contractor quality control purposes and not to be used as Caltrans acceptance of HMA.

2) When the density is verified by contractor nuclear gage quality control test results, then corrective action for number of passes is not required.

Compaction Quality Control Report Review

COMMENTS:

I have reviewed the intelligent compaction results shown on compaction quality control report for compliance with the contract specifications and taken corrective action when required.

Quality Control Manger (print name)	Signature	Date Reviewed

Compaction Quality Control Report Submittal Information

Submit hardcopy to resident engineer within 1 business day of HMA placement.	Submitted by (print name)	Date
Submit Adobe *.pdf file of this form to resident engineer within 1 business day of HMA placement.	Submitted by (print name)	Date